FOR MYSORE STATE

52.

Public Works (1953) Department.

Ms. SERIES.

G.O. NO. 1240

Dated 23rd March 1953

May be closed
P.W.
Supdt

[Despatch Abstract.]

Ports - Mangalore - Improvements - Collection of data - providing protection works to tide house - Estimate for Rs. 5,750/- Sanctioned.

V.SPECIAL

From:
A. Mudie Esq.,
State Port Officer,
Post Box No.13,
M A D R A S - 1.

To:
The Secretary to Government,
Public Works Department,
M A D R A S.

No. 65-S.D./53-15 dated the 11th March 1953.

Sir,

Sub: Ports - Mangalore - Improvements - Model experiments - Collection of data - Providing protection works to tide house - Estimate for Rs.5,750/-

ADDL. ASST. SECRETARY TO GOVERNMENT
12 MAR 1953
PUBLIC WORKS DEPARTMENT

23926

I forward herewith for the sanction of Government an estimate amounting to Rs.5,750/- received from the Executive Engineer, Public Works Department, South Kanara Division, Mangalore, for providing protection works to the tide-house constructed under the sanction accorded by Government in G.O. Ms. No. 405, P.W.D., dated 1st February 1952. The Executive Engineer states that, as the work has to be completed before the monsoon, it will be carried out in anticipation of sanction on hearing from me by return of post, vide copy of the Executive Engineer's letter enclosed. A copy of the Inspection Notes of the Superintending Engineer, Public Works, Coimbatore circle, on the necessity for the work is also attached.

2 I request that the estimate may please be sanctioned and returned direct to the Executive Engineer, Public Works Department, South Kanara Division (Mangalore 3) and this office advised.

3 The expenditure is debitable to the State Minor Ports Fund.

Yours faithfully,

11/3

STATE PORT OFFICER.

ENCLOSURES:

1. Copy of one estimate in duplicate.
2. One Plan.
3. Copy of Executive Engineer's letter dated 7-3-1953.
4. Copy of the Inspection Notes of the Superintending Engineer, Public Works, Coimbatore Circle, dated 3-11-1952.

PPS/11-3.

PUBLIC WORKD DEPARTMENT.

(3)

From
Sri M. Venkataraman, B.A.M.E.,
Executive Engineer,
South Kanara Division,
P.B.No.5, Mangalore.3.

To
The State Port Officer,
Madras.

No.579 M/ dated 7-3-53.

Sir,

Sub:- Tide house at Mangalore port - Providing protection works - estimate forwarded.

The Superintending Engineer, Coimbatore has inspected the tide house on 2-11-52 and as per his instruction given in his No.DII-121 /52 dated 3-11-52 (copy enclosed) the estimate has been prepared for Rs.5750/- and forwarded to you for favour of taking further action in the matter.

The circumstances under which the protection works are necessitated and also the details of the works proposed are explained in detail in the report accompanying the estimate.

The plan and estimate may please be sent to me after duly countersigned by you. As the work is to be completed before the monsoon shall ask my Sub Divisional Officer to carry out the work in anticipation of sanction on hearing from you by return of post.

Encl: 1 Est.Rs.5750/-
1 plan.
1 Copy of S.E.'s letter.

Sd. M.Venkataraman,
Executive Engineer.
South Kanara Division.

C. No.D-III-121/52 dated 3-11-52.

Inspection notes of Sri O.R. Narayanaswami ayyar, B:E. I.S.E. Superintending Engineer, Coimbatore circle, Coimbatore.

Date of Inspection: 2-11-52.

PORT WORK.

1. Inspected the tide house constructing at the mouth of the Netravati. It is reported that the riven bed has eroded by about 6 ft. at the site of the tide house. To prevent further erosion from occuring at the site, it is desirable to do stone pitching with granite stone. The approach foot bridge is not rigid. It may be stiffened with diagonal braces and struts as shown in the sketch.

2. Some more cross sections of the Netravati are to be taken . This work should be completed wihout delay.

Sd. O.R. Narayanaswami Ayyar,
3-11-52.
Superintendeing Engineer,
Coimbatore circle.

/True copy/

N. Narasimhan
Superintendent.

(5)

Report to accompany the estimate for 'Providing Protection work for the tide house at Mangalore port.

Amount of Estimate Rs.5750/-

A Tide house has been constructed and authmatic Tide gauge was installed on the Netravathi river on the east side of the gut and about 100 feet from the South Sand Spit for recording the Tidal waves as required by the Director, Central water and Power Research Station, in connection with thes model experiments that is being conducted at Poona for improvements to Mangalore Port. The data for the model experiments is being collected by the P.W.D. as orders in Govt.Memo. No.1880 E/2/51-2 dated 23-5-51.

As per original design, the main piles of 12" Dr. Supporting the tide house were driven to a depth of 12'o. below the bed of river and a minimum required clear space of 2'6" between the bed and bottom of float well pipe was given and the whole structure was completed during the second week of August 1952.

There was heavy rain on 24th August 1952 in the catchment of Netravathi river and the river was flooded and due to the abnormal current, the bed of the river at the site of the tide house was scoured to an average depth of 5'0", thus diminishing the strength of the piles to support the tide house by (sand friction. Some minor protection work was done (i.e. a triangular wooden box filled with sand bags with its appex facing the current) was fixed at the bed level on the up stream side. in order to divert the directing velocity and to help the gradual silting up of the bed.

The Superintending Engineer in his inspection Note.D.11. 121/52 dated 3-11-52 has given instruction to dump rough stones at the bottom of the piles as shown in thes accompanying plan. The height of the stone pitching is kept at the original bed level at the site to obtain a clear water height of 2'6" between bottom of float well pipe and stone pitching.

The gang way or approach wooden foot bridge is going to be not regid and is vibrating. As per instructions of the Superintending Engineer contained in the inspection Notes stated above, it is proposed to stiffen the foot bridge with diagonal braces and struts fixed on to side piles driven to a depth of 6'.o in the bed of river. This stiffening will be provided for the first 8 row of gang way piles (beginning from Tide House) and stiffenning for last two row piles which are situated near the bank is not considered necessary.

The accompanying estimate provides for the above item protection work. Provisions have also been made for sundry items. viz.Hire charges for country boats for fixing up derrick for driving piles, ropes, poles, Hire charges of diving helmets etc. which are essential for the work of this nature.

Sd/-
Executive Engineer,
South Kanara Division,
Mangalore.

Sd/-
Assistant Engineer P.W.D.
Port Works Subdivision
Mangalore.

DATA SHEET TO ACCOMPANY THE ESTIMATE FOR PROVIDING PROTECTION WORK FOR THE T[illegible] HOUSE AT MANGALORE PORT.

(7)

***

Quantity	Description of work	rate Rs. As.Ps.	per	Amount Rs. A.P.	Total
	1. Rough stone dry packing under water, using granite stones of size 1½' to 2'-0 including stacking for pre-measurement./As per S.I.No.180.				
110 c.ft.	Granite Cough stone S.I.No.22B	16 0 0	100 cft.	17 9 7	
110 C.ft.	Lead 8 miles by road and 1 mile by boat from 8th mile in Mangalore Market road. B. 4.12-6+4-11-0	39 7 6	100 cft.	43 6 8	
1 No.	Wooden	3 0 0	each	3 0 0	
3 No.	Manmazdoor	2 0 0	,,	6 0 0	
2 No.	Women mazdoor	1 0 0	,,	2 0 0	
				72 0 3	
	Addikkamak extra for packing under water.	½		2 15 9	
	2. Country wood kuol bogi large scantlings wrought & put up.				
1 Cft.	Country wood kuol bogi in large scantlings.	7 4 0	1cft.	7 4 0	
1 Cft.	Head ~~under~~ 1 mile road and 1 mile boat 5-10-0 + 3-12-0	9 6 0	100 cft.	0 1 6	
No.	Carpenter I cl.	3 6 0	each	1 11 0	
No.	Man mazdoon	2 0 0	,,	0 8 0	
	Sundries.			0 7 6	
				10 0 0	or 10%
	3. Tarring wood work 2 coats with coal tar.				
8½ lbs.	Coal tar	0 6 6	lb.	3 7 3	
1½ nos.	Man Mazdoor	2 0 0	each	3 0 0	
L.S.	Sundries for brushes etc.			0 8 9	
				7 0 0	or 7%
	4. Driving 6" square wooden piles to the specified departments in compacts and under water in bed of river by driving with ½ ton monkey.				
1 Rft.	Rates as per estimate sanctioned in DR.No.114/51-52	1 8 0	Rft.	1 8 0	or 1-8-0

Certified that the leads and/~~correct~~ to the best of my knowledge.

Sd/- 8-2-53.
S.D.O. Port Works.

Sd/-
Executive Engineer,
South Kanara Division, Mangalore.

ESTIMATE FORM—Detail Measurements, etc.

Providing Protection work for the Tide House at Mangalore Port.

Details of work (1)	Number (2)	Measurements in feet: Length (3)	Breadth (4)	Depth (5)	Area or contents (6)	Total quantity of each description of work (7)
1. Rough stone dry packing at bottom of piles in the scoured bed of river including stacking ~~on~~ the stones on the bank of river for premeasurement.						
(a) Bottom of main piles.						
Portion E.F.G.H.(in plan)	1	$(36'+31')/2$	x18+	(18x18)x5	-2318	
Portion IJKL(North Side) slope	1x½	x6.4	x11-0	x18	627	
Portion M.N.O.P.(South slope side	1x½	x3'.6	x5'-0	x18	135	
Portion I.J.Q.& P.L.K.Slope	2x	(½x10'.6	x11'0)	x6.4.	366	
Portion OPT.& MNS.	2x	(½x5'0	x5'6")	x3'0	41	
Portion Q.J.E. And R.K.F.	2x	(½x9'.0	x11'-0)	x 6.4.	314	
Portion P.H.T. & G.M.S.	2x	(½x5	x6'6)	x3'-0	49	
(B) Gangway Exclusion						
Portion X' Y' ~~etc~~.	1	½x25	x8'6	x&8-0	74	
Side slopes ~~X' X' Y' Y'~~ X' Y' Y' Y'.	2	(½x4'-0	x8'6)	2.5.	43	
Portion and overlapping over main stone pitching	1	(½x25	x5'-0)	7' 0.	34	
Side slopes	2	(½x25	x4'-0)	5	25	
Add extra for portion of stones pitching that will go below bed of river while dumping from boat.					974	
		Total			5000	or 5000 cft
2. Country wood (Kiwl boge) wrought and ~~strut~~ but up.						
Piles 1st row	2	14'-0	0.6'	0.6'	7.00	
,, II Row	2	11'-0	0.6"	0-6'	5.50	
,, III row	2	10'-0	0.6"	0.6"	5.00	
,, IV row	2	8'-6"	0.6"	0.6"	4.25	
,, V row	2	8' 6"	0.6"	0.6."	4.25.	
~~Carried over.~~					~~26 00.~~	
Piles 6th row	2.	8'6"	0.6"	0.6"	4.25	
,, 7th row	2.	7'6"	0.6"	0.6"	3.75	
,, 8th row	2.	7'6"	0.6"	0.6"	3.75	
Horizontal ties between piles.	8.	14'-0	0.4'	0.3'	9.33	

M. F. 4—1,102—29-1-48.

ESTIMATE FORM—Detail Measurements, etc.

Detail of work. (1)	Number. (2)	Measurements in feet. Length. (3)	Breadth. (4)	Depth. (5)	Area or contents. (6)	Total quantity of each description of work. (7)
Struts. 1st 2nd, 3rd and 4th row of piles.	2x4	12'-0	0.4'	0.3"	8.00	
5th row	2	10'-0	0.4"	0.3"	1.50	
6th row	2	9'-0	10.4"	0.3"	1.50	
7th row	2	8'-0	0.4"	0.3"	1.33	
8th row	2	8'-0	0-4"	0-3"	1.33.	
Diagonal braces between piles top.	8	7'	0-4"	0.3"	4.67	
--bottom.	8	6'-0	0-4"	0.3"	4.00	
Sundries.					5.42	
					75.00	75.00 cft.
3. Tarring wood work two coats piles.	2	14'-0	2'-0		56	
,,	2	11'-0	2'.0		44	
,,	2	10'-0	2'-0		40	
,,	6	8'-6	2'-0		102	
,,	4	7'-6"	2-0		60	
Horizbntal.	8	14'-0	1' 2"		131	
struts.	2x4	12'-0	1' 2"		112	
,,	2	10'-0	1' 2"		23	
,,	2	9'-0	11 2"		21	
,,	2	8'-0	1 2"		19	
,,	2	8'-0	1 2"		19	
Braces	8	7'-0	1'2"		65	
,,	8	6'0	1'2"		56	
Sundries.					52	
					800	800 Sq.ft.
4. Driving 6" square piles below bed of of river by hammering with 1/4 tons monkey.						
Piles.	2 x 8	6'-0			96	of 100 Rft
5. Bolts and nuts of sizes for fixing braces ,struts etc.					L.S.	
6. Hire charges for two big size country boats for putting up derrick posts for driving piles.					L.S.	
7. Purchase of coir rope, casurina poles, bamboos for scaffolding and derick post etc.					L.S.	
8. Hire charges for diving set with compressor and engine if found necessary.					L.S.	
9. Contingencies and P.S. Charges.					L.S.	

Sd/-
S.D.O. Port works.

Providing protection work for the Tide House at Mangalore Port.

ESTIMATE FORM—Abstract. (6)

Quantity (1)	Description of work (2)	Rate (3)	Per (4)	Amount (5)	Total (6)
		Rs.As.Ps.			Rs.As.Ps.
5000 Cft.	1. Rough stone dry packing using granite stones of size 1½' to 2'-0, at bottom of piles in the bed of river including stacking the stones on the bank for premeasurement.		100cft.	3750	3750-0-0
75 Cft.	2. Country wood (kirol bogi) wrought is put up.	75-0-0			
		10-0-0	1cft.		750-0-0
800 Sq.ft.	3. Tarring 2 coats wood work with coal tar.	7-0-0	100 cft.		56-0-0
100 Rft.	4. Driving 6' square piles x below bed of river by driving with ¼ ton monkey in compact sand.	1-8-0	1rft.		150-0-0
L.S.	5. Bolts and nuts and washer for fixing breaces, struck.		L.S.		100-0-0
L.S.	6. Hire charges for two big size country boats. for putting up derrick in driving piles in water.		L.S.		350-0-0
L.S.	7. Purchase of coir rope, casurina poles bamboos for scaffolding and derrrcks.		LS.S		114-0-0
L.S.	8. Hire charges for diving set if found necessary for doing work under water		L.S.		200-0-0
3 boat loads.	9. Broken tile pieces for putting up at North edge of sand banks to prevent erosion.	15-0-0	1 boat load	Local rate.	45-0-0
					~~235-0-0~~
	10. Supervision charges at 5 percent on works.				235-0-0
			Grand Total of estimate ...		Rs.5750/-

Sd/-
S.D.O.Port Worøk,
Mangalore.

Sd/-
Executive Engineer,
South Kanara Division, Mangalore.

STATION

Dated

Port-Officer-Conservator.

Countersigned,

3/2/3

ESTIMATE FORM—Detail Measurements, etc.

Details of work (1)	Number (2)	Measurements in feet: Length (3)	Breadth (4)	Depth (5)	Area or contents (6)	Total quantity of each description of work (7)

District .. South Kanara.

Taluk .. Mangalore.

Name of Work No. Providing protective work for the Tide House at Mangalore.

ESTIMATE ABSTRACT.

Budget Head
Main Head.
Amount of Estimate Rs.5750/=

Sanction number and date.

To be carried out by ; P.W.D.

P.W.D (F)

Sub: Ports - Mangalore - Improvements - Collection of data - Providing protection works to tide house - Estimate for Rs 5,750/- Sanctioned

Ref: G.O Ms No 405 P.W.d 1.2.52
From the S.P.O No. 65-S.D/53-15 d 11.3.53

G.O Ms No 1240 d 23.3.53.

The Govt hereby sanction the estimate amounting to Rs 5,750/- (Rupees Five thousand seven hundred and fifty only) for providing protection works to the tide house constructed at the port of Mangalore.

2 The expdr is debitable to the State Minor Ports Fund.

To
The S.P.O
Copy to Exmr of L.F.A
" C.E P.W.D (B)
" Ex Engr P.W.D
S. Kanara Dn
Mangalore-3
(with estimate)
Kept below

From:
A.Muthiah Esq.,
State Port Officer,
P.B.No.13,
Madras 1.

To:
The Secretary to Government,
Public Works Department,
Madras.

No.253 SP 5-7 dated 15-6-1955.

Sir,

Ports - Mandapam - Improvements - Model experiment - Collection of data - Providing protection works to the tide house
Estimate for Rs 5750/- - G.O.Ms.No.1240 P.W. dated 23-5-53.
--

I forward herewith a copy of letter No.1455 M dated 4-6-53 received from the Executive Engineer, P.W.D., South Kanara division
Mangalore and request that the plan referred to may please be sent
direct to the Executive Engineer, South Kanara division.

Yours faithfully,

State Port Officer.

AT/15.

P.t.o.

A 18

From the Executive Engineer, South Kanara Dn., Mangalore.
To the State Port Officer, Madras.
No.1435 M dated 4-6-53

Tide house at Mangalore Port - Providing protection work - Estimate for the - This office No.579 M d/.7-3-53.

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In this office No. cited above an estimate for Rs.5750/- and a plan were sent to you and these were forwarded by you to the Secretary to Government, P.W.D., Madras with your No.65 SD/53-15 dated 11-3-53 for sanction and return to this office.

The estimate was received in this office duly sanctioned from the Government with G.O.Ms.No.1240 dated 23-3-53. But the plan under reference was not received with the estimate. I therefore request you to kindly address the concerned in the matter and return the plan at an early date.

(True Copy)

State Port Officer

PW(71)

16/27.6.

Memo No 55.262 PH/53-1 Dt 26.6.53

Sub. Pali - Mangalore - Providing protection works to the Tadulume Plan.

Ref from the SPO No 2535D/53-7 Dt 15.6.53

—

The Plan referred to in the letter No 1435 M dated 4.6.53 of the LE LE P.W.D S. Kanara Division to the SPO is sent herewith.

PRA
26-6-53

Do
Dy LE LE
PWD
South Kanara
Division
Mangalore
(with the plan
referred to)

SPO
25.6.53
26.6.53.

Subj: Ports - Mangalore - Improvements. Model experiments - Collection of data - Providing protection works to tide house - Estimate for Rs 5,750/-

p 1 CF

[Ref: From the S.P.O No. 65-S.D/53-15 dt 11.3.53]

In pursuance of the recommendation of the Govt of India, it has been arranged to carry out model experiments at the Central Water and Power Research Station at Poona with a view to find out the feasibility or otherwise of maintaining a dredged channel at the Mangalore Port. The experiments have not been completed. A revised estimate amounting to Rs 87,525/- has been sanctioned for the model experiments that are being conducted P^ra. In connection with the collection of data for the experiments at Poona, certain P.W.D staff have been sanctioned and this staff are collecting data at Mangalore. Govt C.O No. 405 P.W.D dt 1-2-52, the Govt sanctioned an estimate amounting to Rs 5,250/- for construction a tide house in connection with the collection of data for the model experiments that are being carried out at Poona.

pp 81-82 CF 04 (M) (Govt No 4321 F1/51 24-10-52)

Lr pp 5 n/f 04 (C) (Memo No 26899 F1/52 21-12-52)

pp 245-246 CF 04 (N)

p 150 (IV)

A

2 The S.P.O has now submitted an estimate amounting to Rs 5,750/- prepared by the P.W.D for protection works to the tide house constructed with reference to the sanction referred to at 'A' above. The necessity for the protection works is explained in the report accompanying the estimate at p 5 CF

pp 1 - 17 CF

3 It will be seen that the estimate for protection works (Rs 5,750/-) exceeds the estimate sanctioned for the tide house itself (Rs 5,250/-). It does not however appear necessary to point this out to the S.P.O in view of the urgency of the proposal and also in view of the reasons explained at p 5 CF. In this view, the

Man p 1 CF

estimate may perhaps be sanctioned. Subject to ~~orders~~ approval, a draft order is submitted

P.M
20/3/53

2/3/53

21.3.53